

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Claim 1 (Canceled)

Claim 2 (Currently amended): An electronics system comprising:

a transmission line; and

an electronic component comprising an electromagnetic coupler electromagnetically coupled to said transmission line; and

~~first shielding material disposed between circuitry on said electronic component and said electromagnetic coupler~~

wherein said electromagnetic coupler is loosely coupled to said transmission line such that a signal in said electromagnetic coupler induces a corresponding signal in said transmission line that is attenuated by at least about 10 decibels.

Claim 3 (Currently amended): The electronics system of ~~claim 44~~ claim 2, wherein said electromagnetic coupler is loosely coupled to said transmission line such that a signal in said electromagnetic coupler induces a corresponding signal in said transmission line that is attenuated by at least about 20 decibels.

Claim 4 (Currently amended): The electronics system of ~~claim 44~~ claim 2, wherein said electromagnetic coupler is loosely coupled to said transmission line such that a signal in said electromagnetic coupler induces a corresponding signal in said transmission line that is attenuated by between about 10 decibels and about 40 decibels.

Claim 5 (Canceled)

Claim 6 (Currently amended): An electronics system comprising:

a transmission line; and

a plurality of integrated circuits, each integrated circuit comprising ~~an~~ a respective electromagnetic coupler electromagnetically coupled to said transmission line,

wherein each said electromagnetic coupler is loosely coupled to said transmission line such that a signal in each said electromagnetic coupler induces a corresponding signal in said transmission line that is attenuated by at least about 10 decibels, and

wherein each said electromagnetic coupler of each said integrated circuit is smaller than each said integrated circuit.

Claim 7 (Currently amended): ~~The electronics system of claim 5,~~ An electronics system comprising:

a transmission line;

an electronic component comprising an electromagnetic coupler electromagnetically coupled to said transmission line; and

first shielding material disposed between circuitry on said electronic component and said electromagnetic coupler,

wherein said electronic component is an integrated circuit, and

wherein the electromagnetic coupler of said integrated circuit is integrated with a packaging of said integrated circuit.

Claim 8 (Canceled)

Claim 9 (Currently amended): The electronics system of ~~claim 2~~ claim 60, wherein said first shielding material comprises a gap disposed adjacent the electromagnetic coupler of said electronic component.

Claim 10 (Currently amended): ~~The electronics system of claim 2~~ An electronics system comprising:

a transmission line;
an electronic component comprising an electromagnetic coupler electromagnetically coupled to said transmission line; and
first shielding material disposed between circuitry on said electronic component and said electromagnetic coupler,

wherein said electromagnetic coupler is grounded at one end.

Claim 11 (Previously presented): The electronics system of claim 43, wherein each of said electromagnetic couplers is grounded at one end.

Claim 12 (Previously presented): The electronics system of claim 43, wherein at least two of said plurality of electronic components are integrated circuits.

Claim 13 (Previously presented): The electronics system of claim 12 further comprising a substrate, wherein said transmission line comprises a conductive material disposed on said substrate and each of said integrated circuits is attached to said substrate.

Claim 14 (Previously presented): The electronics system of claim 2, wherein said electronic component is a first circuit board.

Claim 15 (Previously presented): The electronics system of claim 14, wherein said transmission line is disposed on a second circuit board.

Claim 16 (Currently amended): The electronics system of ~~claim 2~~ claim 60 further comprising second shielding material disposed to at least partially shield said transmission line.

Claim 17 (Previously presented): The electronics system of claim 16, wherein said second shielding material comprises a gap through which said electromagnetic coupler of said electronic component electromagnetically couples to said transmission line.

Claim 18 (Previously presented): The electronics system of claim 2 further comprising a plurality of said transmission lines.

Claim 19 (Previously presented): The electronics system of claim 18, wherein said electronic component comprises a plurality of said electromagnetic couplers.

Claim 20 (Previously presented): The electronics system of claim 19, wherein each said electromagnetic coupler is electromagnetically coupled to a corresponding one of said plurality of transmission lines.

Claim 21 (Currently amended): The electronics system of claim 18 further comprising ~~additional~~ shielding material disposed between each of said plurality of transmission lines.

Claim 22 (Previously presented): The electronics system of claim 43, wherein said plurality of electronic components are disposed along said transmission line such that the electromagnetic couplers of each of said electronic components are spaced no more than about ten millimeters from said transmission line.

Claim 23 (Previously presented): The electronics system of claim 2, wherein said transmission line is passive.

Claim 24 (Previously presented): The electronics system of claim 2, wherein said transmission line does not physically contact an active electronic device.

Claim 25 (Previously presented): The electronics system of claim 2, wherein said transmission line is driven only by electronic devices that are electromagnetically coupled to said transmission line.

Claims 26-38 (Canceled)

Claim 39 (Currently amended): The electronics system of ~~claim 38~~ claim 46, wherein said transmission line is disposed on a substrate, and said plurality of electronic components comprise respective integrated circuits disposed on said substrate.

Claims 40-42 (Canceled)

Claim 43 (Currently amended): The electronics system of claim 2 further comprising a plurality of said electronic components, each said electronic component comprising ~~an~~ a respective electromagnetic coupler electromagnetically coupling said corresponding electronic component to said transmission line.

Claim 44 (Canceled)

Claim 45 (Currently amended): ~~The electronics system of claim 37,~~ An electronics system comprising:

a transmission line;
shielding means for shielding said transmission line;
a plurality of electronic components; and
a plurality of coupling means, each coupling means for electromagnetically coupling at least one of said electronic components with said transmission line,

wherein each of said plurality of coupling means couples one of said electronic components with said transmission line loosely with at least a 10 decibel attenuation.

Claim 46 (Currently amended): ~~The electronics system of claim 38,~~ An electronics system comprising:

a transmission line;

a plurality of electronic components;

shielding means associated with each of said electronics components for shielding each said electronic component; and

a plurality of coupling means, each coupling means for electromagnetically coupling at least one of said electronic components with said transmission line,

wherein each of said plurality of coupling means couples one of said electronic components with said transmission line loosely with at least a 10 decibel attenuation.

Claim 47 (Currently amended): The electronics system of ~~claim 37~~ claim 45, wherein said transmission line is disposed on a substrate, and said plurality of electronic components comprise respective integrated circuits disposed on said substrate.

Claim 48 (Currently amended): An electronics system comprising:

a transmission line; and

an electronic component comprising an electromagnetic coupler electromagnetically coupled to said transmission line; and

~~first shielding material disposed to at least partially shield said transmission line~~

wherein said electromagnetic coupler is smaller than said electronic component and loosely coupled to said transmission line such that a signal in said transmission line induces a corresponding signal in said electromagnetic coupler that is attenuated by at least about 10 decibels.

Claim 49 (Currently amended): The electronics system of ~~claim 48~~ claim 62, wherein said first shielding material is disposed between said transmission line and said electronic component and comprises a gap through which said electromagnetic coupler of said electronic component electromagnetically couples to said transmission line.

Claim 50 (Previously presented): The electronics system of claim 48 further comprising a plurality of said transmission lines.

Claim 51 (Currently amended): The electronics system of claim 50, wherein said electronic component comprises a plurality of ~~said~~ electromagnetic couplers.

Claim 52 (Previously presented): The electronics system of claim 51, wherein each said electromagnetic coupler is electromagnetically coupled to a corresponding one of said plurality of transmission lines.

Claim 53 (Currently amended): The electronics system of claim 52 further comprising ~~additional~~ shielding material disposed between each of said plurality of transmission lines.

Claim 54 (Currently amended): The electronics system of claim 48 further comprising a plurality of said electronic components, each said electronic component comprising ~~an~~ a respective electromagnetic coupler electromagnetically coupling said corresponding electronic component to said transmission line.

Claim 55 (Canceled)

Claim 56 (Currently amended): The electronics system of ~~claim 55~~ claim 48, wherein said electromagnetic coupler is loosely coupled to said transmission line such that a signal in said ~~electromagnetic coupler~~ transmission line induces a corresponding signal in said ~~transmission line~~ electromagnet coupler that is attenuated by at least about 20 decibels.

Claim 57 (Currently amended): The electronics system of ~~claim 55~~ claim 48, wherein said electromagnetic coupler is loosely coupled to said transmission line such that a signal in said ~~electromagnetic coupler~~ transmission line induces a corresponding signal in said ~~transmission line~~ electromagnet coupler that is attenuated by between about 10 decibels and about 40 decibels.

Claim 58 (Previously presented): The electronics system of claim 48, wherein said electronic component is an integrated circuit.

Claim 59 (Currently amended): ~~The electronics system of claim 58,~~ An electronics system comprising:

a transmission line;
an electronic component comprising an electromagnetic coupler electromagnetically coupled to said transmission line; and
first shielding material disposed to at least partially shield said transmission line,
wherein said electronic component is an integrated circuit, and
wherein the electromagnetic coupler of said integrated circuit is integrated with a packaging of said integrated circuit.

Claim 60 (New): The electronics system of claim 2 further comprising first shielding material disposed between circuitry on said electronic component and said electromagnetic coupler.

Claim 61 (New): The electronic system of claim 2 further comprising an integrated circuit to which said electromagnetic coupler is connected, and wherein said electromagnetic coupler is smaller than said integrated circuit.

Claim 62 (New): The electronics system of claim 48 further comprising first shielding material disposed to at least partially shield said transmission line.